

# Keyed LC Connector Solution

A LANscape®  
Solutions Product

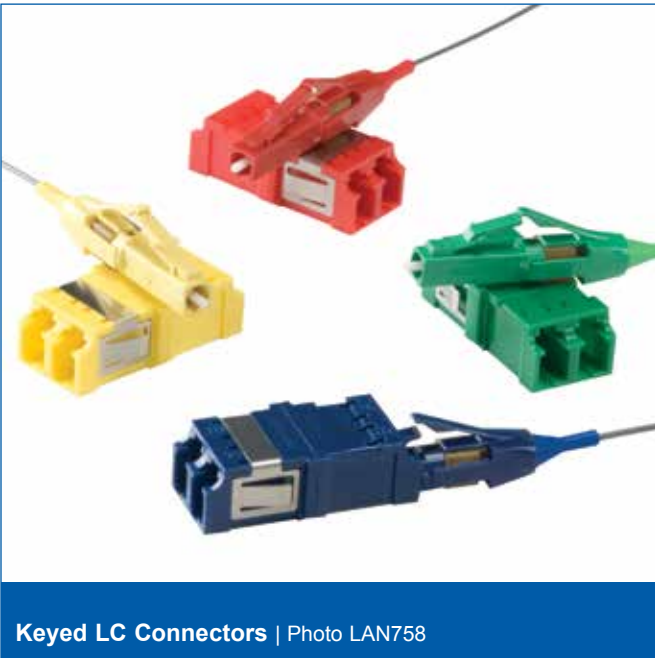
## features and benefits |

|  |  |
|--|--|
| Eight color-coded mechanical key positions | Prevents mismatch of networks            |
| Meets TIA/EIA-568-B requirements           | Optimum optical performance              |
| Keyed connectors and adapters              | Front and rear security in network panel |
| Full solution availability                 | Various network applications             |

Corning Cable Systems Keyed LC Connector Solution offers mechanical network security for organizations desiring to segregate networks due to privacy or security concerns. Utilizing the LC small-form-factor (SFF) format for optical fiber cabling, the keyed LC solution provides physical separation for up to eight networks, applications or organizations. Eight color-coded key combinations prevent inadvertent or unauthorized access to networks and provide fast and easy network identification. Keyed connectors on the front and back of the patch panel area are used to match access rights to the proper network. The keyed features cannot be duplicated with standard LC components, thereby preventing violation of network security. The SFF LC connector allows high-density deployment in less space than SC or ST® Compatible Connectors and supports up to 288 fibers in a 4U rack-mountable housing.

The keyed LC connector solution is available in single-mode (OS2), 62.5 µm multimode (OM1), standard 50 µm (OM2) and laser-optimized 50 µm multimode (OM3/OM4). Corning Cable Systems OM2 and OM3

(continued)



Keyed LC Connectors | Photo LAN758



Keyed LC Connectors | Photo LAN1289

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jumpers have enhanced bend performance enabled by Corning® ClearCurve® multimode fiber. Ideal for research labs and secure government facilities, a full solution is available, ranging from factory-installed keyed LC connectors for assemblies and Plug & Play™ Universal Systems modules, to field-installable UniCam® Connectors and anaerobic keyed LC connectors, to adapters loaded into standard LANscape® Solutions panels and modules.

## UniCam Connector

- No-epoxy/no-polish
- No need for electrical power for ovens or lights
- Quick installation: less than one minute per connector
- 100 percent factory tested for insertion loss (typical insertion loss is 0.1 dB for multimode and 0.2 dB for single-mode)
- Fast termination, high installation yields and no consumables means lower cost
- Factory-polished end face for consistent optical performance and factory-built jumper quality
- Continuity test set gives immediate go/no-go feedback of successful termination
- Utilizes standard UniCam Pretium® Tool Kit for installation so no additional materials required
- Reliable, proven technology with more than 50 million units sold since 1993

## Anaerobic Connector

- Fast-cure anaerobic adhesive; does not require electrical power for lamps or ovens
- Hand polish; does not require polishing machine
- Reduced installation time; single-strike crimp solution ensures fewer than three minutes assembled and polished
- Average 0.2 dB insertion loss with physical contact polish

## Cable Assemblies

- Complete line of single-fiber jumpers to high-fiber-count assemblies available with keyed LC for all connector types
- State-of-the-art manufacturing process ensures consistent performance and tightly controlled end-face geometry
- 100 percent factory tested

## CCH Adapter Panels

- Universal approach is used; one panel size fits in all standard LANscape Solutions hardware (for example, CCH, PCH, CCS, WCH, ICH, EDC, FZB)
- Adapters are keyed on both sides to provide total network security

## CCH Pigtail Modules

- Compatible with PCH and CCH LANscape Solutions rack-mountable housing
- Offers greater protection to optical cables and connectors
- Provided with factory-installed and factory-tested 3 m pigtails
- Available with MIC® Cable or ribbon pigtail types

## Plug & Play Universal Systems Modules

- Factory-terminated solutions for improved system performance, component compatibility and consistent quality
- Universal and Classic wired modules enable fast and simple networking moves, adds and changes (MACs) without polarity concerns associated with special polarity-compensating components

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## ordering information |

### UniCam® Connectors

95 -  - K

|1|2

|1

Select fiber type.

000 = 62.5 µm multimode (OM1)  
050 = 50 µm multimode (OM2)  
05X = 50 µm laser-optimized multimode (OM3/OM4)  
200 = Single-mode (OS2)

See Note 1.

|2

Select keyed LC color.

N = Blue      B = Black  
R = Red        S = Slate  
Y = Yellow     E = Orange  
G = Green     V = Violet

Note:  
1) Also available in Z-PAKs.  
Add “-Z” to end of part number.

### Part Number Example

| Part Number | Description  |
|-------------|--|
| 95-05X-KN   | Keyed LC UniCam Connector, laser-optimized 50 µm, blue |

### Anaerobic-Cure Keyed LC Field-Installable Connectors

95 -  - 98 - SP - K

|1|2

|1

Select fiber type.

101 = 62.5 µm multimode (OM1)  
051 = 50 µm multimode (OM2)  
201 = Single-mode (OS2)

|2

Select keyed LC color.

N = Blue      B = Black  
R = Red        S = Slate  
Y = Yellow     E = Orange  
G = Green     V = Violet

### Part Number Example

| Part Number     | Description  |
|-----------------|--|
| 95-101-98-SP-KN | Keyed LC Anaerobic-Cure Connector, 62.5 µm multimode (OM1), blue |



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## ordering information | (continued)

### Connector Panels

CCH - CP    ☐ ☐ - ☐ ☐  
                  |1                   |2

|1

Select fiber count.

06 = 6 fibers (3 duplex adapters)  
08 = 8 fibers (4 duplex adapters)  
12 = 12 fibers (6 duplex adapters)  
16 = 16 fibers (8 duplex adapters)  
24 = 24 fibers (12 duplex adapters)

|2

Select keyed LC duplex adapter style/color.

**Keyed on both front and back of adapter**

K1 = Blue      KH = Orange  
K5 = Red      KK = Black  
K9 = Yellow    KL = Slate  
KD = Green    KM = Violet

**Keyed on front of adapter only, non-keyed on back**

LA = Red      LF = Black  
LB = Green    LG = Slate  
LD = Yellow   LH = Orange  
LE = Blue      LK = Violet

### Part Number Example

| Part Number | Description  |
|-------------|--|
| CCH-CP12-K9 | CCH Connector Panel with six keyed LC duplex adapters, yellow (keyed front and back) |
| CCH-CP12-LE | CCH Connector Panel with six keyed LC duplex adapters, blue (keyed front only)       |

### Adapters

ADP - KDLC - CC    ☐    RF - CL    ☐  
                          |1                   |2

|1

Select color of adapter.

G = Green      E = Orange  
N = Blue      V = Violet  
R = Red        B = Black  
Y = Yellow      S = Slate

|2

Select keyed LC connector style.

S = Keyed to keyed  
X = Keyed to non-keyed

### Part Number Example

| Part Number        | Description  |
|--------------------|--|
| ADP-KDLC-CCYRF-CLS | LC Duplex Adapter, yellow, keyed on both front and back of adapter |

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## ordering information | (continued)

### Pigtailed Modules and Panels

A standard pigtail length is 3 m (9.842 ft). For lengths other than 3 m, please contact Corning Cable Systems Customer Care at 800-743-2671.

|     |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|
| CCH | - | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | - | <input type="checkbox"/> <input type="checkbox"/> | - | P | 0 | 3 | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> |
|     |   | 1   | 2   |   | 3   |   |   |   |   | 4   | 5   |

|1

Select module or panel.

RM = Module  
CP = Panel

|2

Select fiber count.

06 = 6 fibers  
08 = 8 fibers  
12 = 12 fibers  
16 = 16 fibers  
24 = 24 fibers

|3

Select keyed LC duplex adapter style/color.

**Keyed on both front and back of adapter**

K1 = Blue      KH = Orange  
K5 = Red      KK = Black  
K9 = Yellow    KL = Slate  
KD = Green    KM = Violet

**Keyed on front of adapter only,  
non-keyed on back**

LA = Red      LF = Black  
LB = Green    LG = Slate  
LD = Yellow   LH = Orange  
LE = Blue      LK = Violet

|4

Select fiber type.

K = 62.5 µm multimode (OM1)  
C = 50 µm multimode (OM2)  
S = 50 µm multimode (OM4)  
R = Single-mode (OS2)

|5

Select cable type.

H = MIC® Cable subunit  
(standard fiber cable option)  
J = Ribbon fiber

### Part Number Example

| Part Number       | Description  |
|-------------------|--|
| CCH-RM12-K1-P03KH | CCH 12-Fiber Pigtail Module with six keyed LC duplex blue adapters and a 3 m long MIC Cable subunit 62.5 µm pigtail, with 12 keyed LC duplex blue connectors |

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## ordering information | (continued)

### CCH Pigtailed Splice Cassettes (for use in CCH housings only)

|     |   |    |                      |                      |   |                      |                      |   |   |   |   |                      |                      |
|-----|---|----|----------------------|----------------------|---|----------------------|----------------------|---|---|---|---|----------------------|----------------------|
| CCH | - | CS | <input type="text"/> | <input type="text"/> | - | <input type="text"/> | <input type="text"/> | - | P | 0 | 0 | <input type="text"/> | <input type="text"/> |
|     |   |    | 1                    |                      |   | 2                    |                      |   |   |   |   | 3                    | 4                    |

|1

Select fiber count.

- 06 = 6 fibers
- 08 = 8 fibers
- 12 = 12 fibers
- 16 = 16 fibers
- 24 = 24 fibers

|2

Select keyed LC duplex adapter style/color.

**Keyed on both front and back of adapter**

- |             |             |
|-------------|-------------|
| K1 = Blue   | KH = Orange |
| K5 = Red    | KK = Black  |
| K9 = Yellow | KL = Slate  |
| KD = Green  | KM = Violet |

**Keyed on front of adapter only,  
non-keyed on back**

- |             |             |
|-------------|-------------|
| LA = Red    | LF = Black  |
| LB = Green  | LG = Slate  |
| LD = Yellow | LH = Orange |
| LE = Blue   | LK = Violet |

|3

Select fiber type.

- K = 62.5 µm multimode (OM1)
- B = 50 µm multimode (OM2)
- T = 50 µm multimode (OM3)
- Q = 50 µm multimode (OM4)
- R = Single-mode (OS2)

|4

Select splicing type.

- E = Single-fiber splicing
- J = Ribbon splicing  
(only for fiber counts of  
12 or 24)

### Part Number Example

| Part Number       | Description  |
|-------------------|--|
| CCH-CS24-K1-P00TE | Closet Connector Housing Pigtail Cassette with 12 LC duplex adapters, blue, keyed front and back with 24 OM3 LC keyed blue connector pigtails routed inside the cassette for single-fiber splicing |

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## ordering information | (continued)

### Plug & Play™ Systems Keyed LC Modules

|     |   |                      |   |   |   |   |   |   |                      |   |   |
|-----|---|----------------------|---|---|---|---|---|---|----------------------|---|---|
| CCH | - | <input type="text"/> | M | <input type="text"/> <input type="text"/> | - | <input type="text"/> <input type="text"/> | - | <input type="text"/> <input type="text"/> | <input type="text"/> | - | <input type="text"/> <input type="text"/> |
|     |   | 1                    |   | 2   |   | 3   |   | 4   |                      | 5 | 6   |

**|1**  
Select module type.  
U = Universal  
R = Classic  
*See Note 1.*

**|2**  
Select fiber count.  
12 = 12 fibers  
24 = 24 fibers

**|3**  
Select connector code.  
26 = Keyed LC multimode, duplex  
33 = Keyed LC single-mode, duplex

**|4**  
Select MTP® Connector.  
70 = Multimode  
89 = Single-mode

**|5**  
Select fiber type.  
K = 62.5 µm multimode (OM1)  
T = 50 µm multimode (OM3)  
Q = 50 µm multimode (OM4)  
R = Single-mode (OS2)

**|6**  
Select keyed LC color.  
BL = Blue  
RD = Red  
YL = Yellow  
GR = Green  
OR = Orange  
VL = Violet  
BK = Black  
SL = Slate

*Note:*  
1) Default is Universal. Please note that Classic and Universal components are not compatible with each other.

### Part Number Example

| Part Number        | Description  |
|--------------------|--|
| CCH-UM24-26-70T-YL | 24-Fiber, 50 µm Multimode Module with 12 yellow keyed LC duplex adapters |

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